

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL FOR TWO PHASES OF A ONE LANE MAINTAINANCE OF TRAFFIC SEQUENCE DURING THE RECONSTRUCTION OF MD 23 BRIDGE NO. 12064 IN HARFORD COUNTY.

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A POLE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A SEQUENTIAL ORDER USING 4 NEMA PHASES FOR A ONE LANE SIGNAL OPERATION. THE NORTHBOUND APPROACH OF MD 23 SHALL BE IN OPERATION IN NEMA PHASE ONE. NEMA PHASE TWO SHALL HAVE AN ALL AROUND RED PHASE. THE THIRD NEMA PHASE THE SOUTHBOUND TRAFFIC IS ACTUATED. NEMA PHASE FOUR SHALL HAVE AN ALL AROUND RED PHASE. LOOP DETECTORS SHALL BE INSTALLED ON THE NORTH AND SOUTHBOUND APPROACHES FOR THE ACTUATION OF THE TRAFFIC SIGNAL.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781/2785  
MR. DAVID CREIGHTON, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 321-2821  
MR. MIKE PASQUARIELLO, DISTRICT UTILITIES ENGINEER  
PHONE: (410) 321-2841  
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761  
MR. ROBERT SNYDER, TRAFFIC OPERATIONS DIVISION - TELEPHONE DROP  
PHONE: (410) 787-7631  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

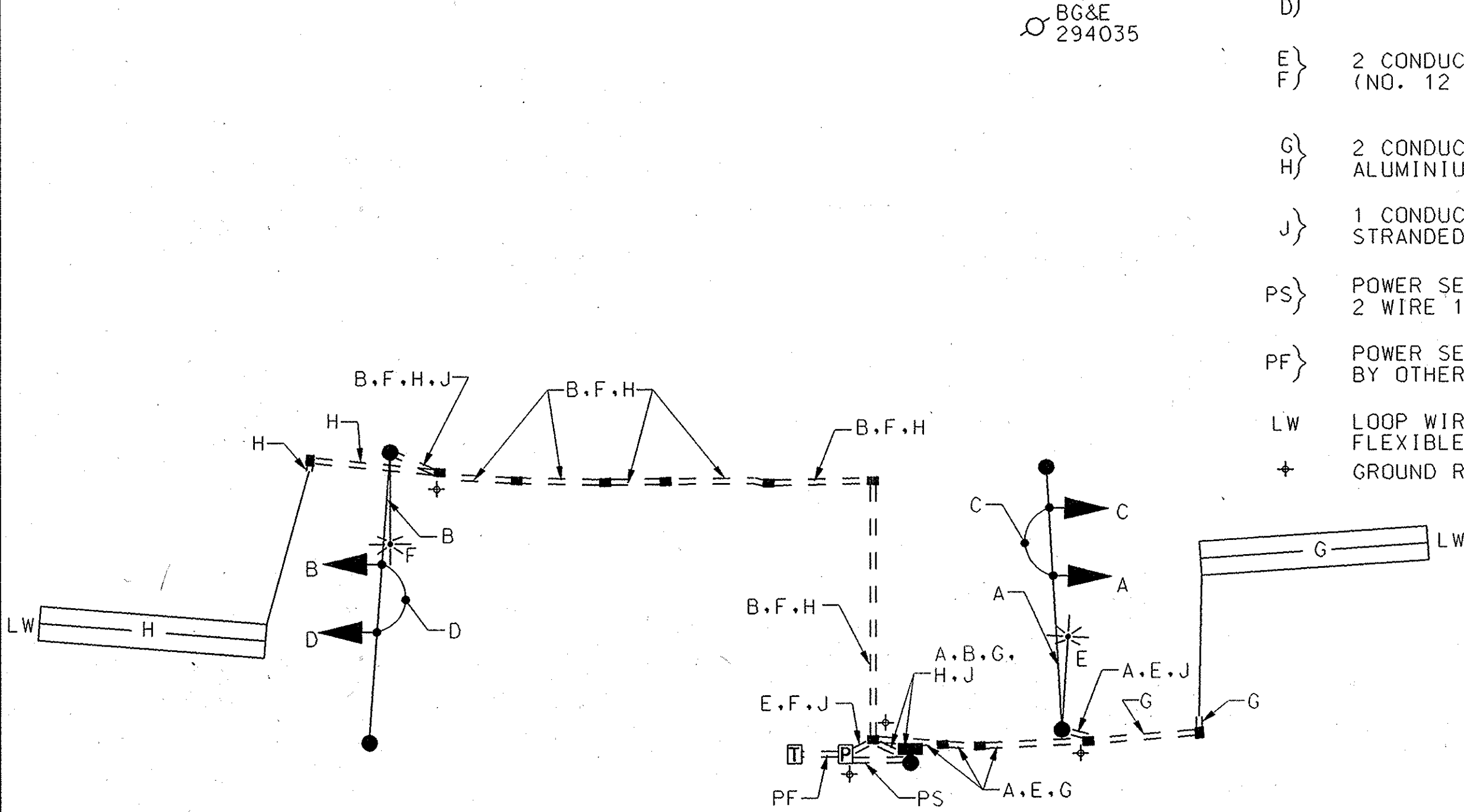
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	ECONOLITE ASC II CONTROLLER WITH RACK MOUNTED AMPLIFIERS	EA	1
973023	POLE MOUNTED (SIZE -5) CABINET WITH HARDWARE FOR BANNING TO WOOD POLE	SF	25
	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	EA	2
	W3-3 (36"x36") GROUND MOUNT		
	M4-7 (30"x15") GROUND MOUNT		

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	3
585624	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	30
800000	FURNISH AND INSTALL 40 FOOT WOOD POLE	EA	4
800000	FURNISH AND INSTALL 20 FOOT WOOD POLE	EA	1
800000	FURNISH AND INSTALL 2 INCH PVC CONDUIT RISER	LF	20
800000	FURNISH AND INSTALL 3 INCH PVC CONDUIT RISER	LF	30
801104	WOOD SIGN SUPPORTS 4 INCH X 4 INCH	LF	20
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	100
805032	3 INCH PVC U-GUARD RISER	LF	55
805050	3 INCH WEATHER HEAD	EA	2
805115	3 INCH SCHED. 80 PVC CONDUIT-BORED	LF	50
805125	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	20
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	1050
805140	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	40
805160	1 INCH LIQUID TIGHT FLEXIBLE NON-METTALLIC ELECTRICAL CONDUIT	LF	10
807202	METER SERVICE PEDESTAL	EA	1
810010	CABLE 1-CONDUCTOR, NO. 4 AWG-THHN/THWN	LF	40
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	10
813014	INSTALL GROUND MOUNTED SIGN	SF	25
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	2
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	4
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	12
861104	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINIMUM SHIELDED)	LF	1205
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1235
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	1165
862102	SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	360
866103	15 FOOT LIGHTING ARM ON WOOD POLE (FOR SIGNAL)	EA	2
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	110
871201	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	1

WIRING DIAGRAM



PHASE CHART

	1	2	3	4
	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)
PHASE 1	G	G	R	R
PHASE 1 CHANGE	Y	Y	R	R
PHASE 2 ALL RED	R	R	R	R
PHASE 3	R	R	G	G
PHASE 3 CHANGE	R	R	Y	Y
PHASE 4 ALL RED	R	R	R	R
FLASHING OPERATION	FLR	FLR	FLR	FLR

\* THE SIGNAL WILL OPERATE IN A SEQUENTIAL ORDER

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION			
<b>REPLACEMENT OF SUPERSTRUCTURE AND REHABILITATION OF SUBSTRUCTURE FOR BRIDGE No.12064 ON MD 23 over MORSE RD</b> HARFORD COUNTY, MARYLAND			
GENERAL INFORMATION PLAN (MOT PASE 1)			
SCALE	NA	DATE	10/2006
		CONTRACT NO.	HA2835180
DESIGNED BY	S. SMITH	COUNTY	HARFORD
DRAWN BY	S. SMITH	LOGMILE	
CHECKED BY	S. RENZI	TIMS NO.	1033
FAP NO.		TOD NO.	
TS NO.	23 M21-1-G1	DRAWING	3 OF 6
		SHEET NO.	12 OF 60

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